

Throttle Bodies

The main purpose of throttle bodies is to **control the flow of air into the engine** – as the throttle body flap opens, extra air is allowed to pass into the engine's combustion chamber, controlling performance and other functions

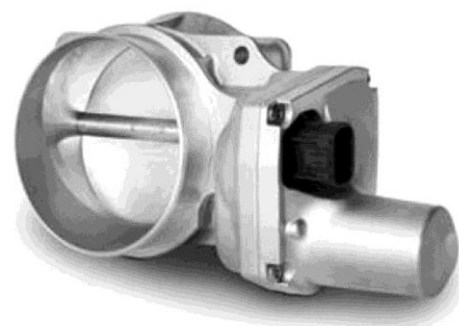


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Functions

By adjusting air flow in petrol engines, **throttle bodies** control a number of aspects such as driveability, idle speed control, comfort functions, cruise control, anti-skid and other safety functions.

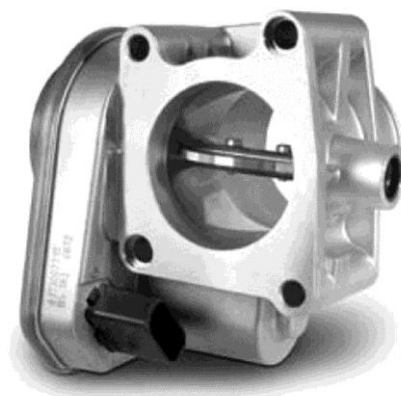
In diesel engines, throttle bodies, usually referred to as '**pre-flaps**' regulate the exhaust gas recirculation rate to balance the pressure difference between exhaust gas and intake air, ensuring consistent levels of engine performance. Pre-flaps in diesel engines also help to regenerate diesel particulate filters by burning off soot deposits and reduce engine cut-off vibrations.



Troubleshooting and Diagnostics

Complaints that may be associated with failing throttle bodies include:

- Engine warning light illuminates
- Engine temperature increases
- Engine shuddering after shutdown
- The throttle body and engine fan may operate from the same fuse – if this fuse blows, the engine fan will stop running causing the engine temperature to increase.



Potential solutions:

- **Perform an actuator diagnosis** with the aid of an engine tester – the actuator diagnosis drives the throttle body in intervals. If switching can be felt then the power supply is okay.
- **Replace suspected blown fuses** with one of the same amp rating.
- If the throttle body appears to be defective it must be replaced. If there is dirt build up or oil contamination, **cleaning is not recommended** and may even damage functional units.



Range Coverage

Pierburg offers the two main types of throttle body used by vehicle manufacturers, which are **mechanical** and **electronic 'drive-by-wire'**.

Pierburg throttle bodies are used in **more than 25 million vehicles** making them one of the top suppliers of throttle bodies.

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